



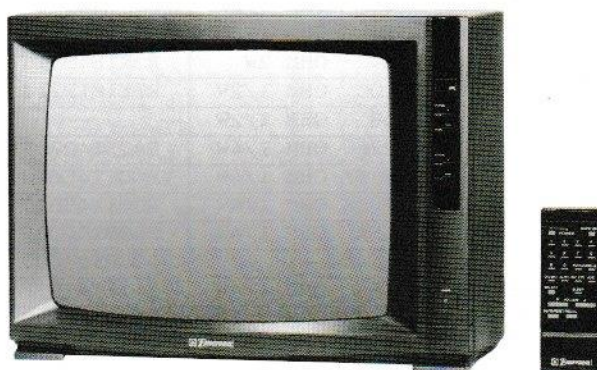
# SERVICE MANUAL

MODEL  
TC1966D

REVISION  
SUFFIX B

## COLOR TELEVISION RECEIVER

**AKB** AUTOMATIC KINE BIAS



SUFFIX	PRODUCT IMPROVEMENT		
A	ORIGINAL		
B	CHANNEL AUTO MEMORY IMPROVEMENT	EARPHONE JACK DELETED	FOR VA

Please file this suffix with the original version (Suffix A).

**SERVICE PUBLICATION**

**#37-92**

Note: All the specifications and features are subject to change without notice.  
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The following adjustments from the TC1966D SUFFIX A SERVICE MANUAL do not apply to the SUFFIX B version. Do not perform these adjustments when servicing the SUFFIX B unit.

2-12: HORIZONTAL SIZE (BAR INDICATOR)  
HOW TO RESET THE MICROCOMPUTER (on page 6)

## DIFFERENCES

Channel auto memory improvement

Ref.No	SUFFIX A		SUFFIX B AND ALSO SERIAL NOS. 5041A121-2300001~5041A121-2312600 ON SUFFIX A UNITS.	
	Part No	Description	Part No	Description
C005	COJTF0414Z	CC 0.01 UF 50V YF	COJTB04H3K	CC 0.0022 UF 50V YB
C134	EOE7T5100M	CE 10 UF 50V	EOE7T5010M	CE 1 UF 50V

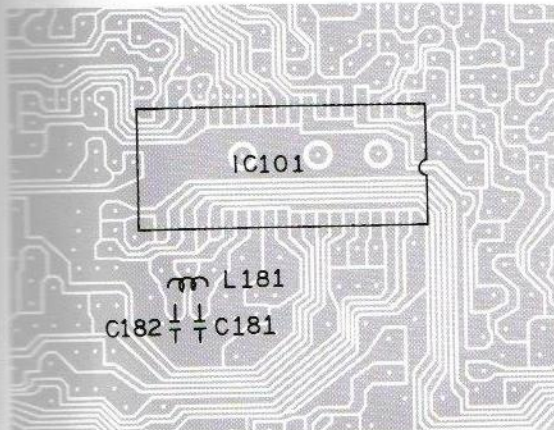
For VA

Ref.No	SUFFIX A		SUFFIX B	
	Part No	Description	Part No	Description
R158	RO01T6472J	RC 4.7K OHM 1/6W		OPEN
R174	RO01T6271J	RC 270 OHM 1/6W		OPEN
△R352	RO02T2563J	RC 56K OHM 1/2W	RO02T2393J	RC 39K OHM 1/2W
△R353	RO02T2563J	RC 56K OHM 1/2W	RO02T2393J	RC 39K OHM 1/2W
R354	RO01T6563J	RC 56K OHM 1/6W	RO01T6823J	RC 82K OHM 1/6W
△R356	R6148A391J	R,FUSE 390 OHM 2W	R3K181561J	R,FUSE 560 OHM 2W
△R357	R615U2101J	R,FUSE 100 OHM 1/2W	R3K181221J	R,FUSE 220 OHM 1/2W
R360	RO0202680J	RC 68 OHM 1/2W		OPEN
△R436	R425T4223F	R,METAL 22K OHM 1/4W	R425T4273F	R,METAL 27K OHM 1/4W
△R437	R425T4562F	R,METAL 5.6K OHM 1/4W	RO01T4561J	RC 560 OHM 1/4W
△R440	R425T4562F	R,METAL 5.6K OHM 1/4W	RO01T4561J	RC 560 OHM 1/4W
△R441	R425T4153F	R,METAL 15K OHM 1/4W	R425T4203F	R,METAL 20K OHM 1/4W
R481			RO02T2560J	RC 56 OHM 1/2W
R804	R425T4153F	R,METAL 15K OHM 1/4W	R425T4173F	R,METAL 17K OHM 1/4W
R818	R425T4272F	R,METAL 2.7K OHM 1/4W	RO01T4681J	RC 680 OHM 1/4W
C125	EOE7T1471M	CE 470 UF 10V		OPEN
C126	EO27T1222M	CE 2200 UF 10V		OPEN
C127	CHGTYO214M	CC 0.01 UF 16V		OPEN
C128	CHGTBO413K	CC 1000 PF 50V		OPEN
C131	CHGTBO4B2K	CC 120 PF 50V		OPEN
C132	CHGTBO4B2K	CC 120 PF 50V		OPEN
C181			CHGTSL4G1J	CC 22 PF 50V
C182			CHGTCH4G1J	CC 18 PF 50V
△C353	EOE5TB4R7M	CE 4.7 UF 160V	EOE5TD010M	CE 1 UF 250V
D131	D15T015850	DIODE,SILICON 1S1585(TPE3)		OPEN
Q110	TCLIO09450	TRANSISTOR 2SC945A(C)-I		OPEN
△Q351	TC30041590	TRANSISTOR 2SC4159(D,E)	TC30039020	TRANSISTOR 2SC3902(S,T)
△Q352	TC30041590	TRANSISTOR 2SC4159(D,E)	TC30039020	TRANSISTOR 2SC3902(S,T)
L101	033090001M	COIL 3090001		OPEN
L181			021JA6470K	COIL 47 UH
△T351	045128007U	TRANS.,SOUND OUTPUT 5128007	045128004U	TRANS.,SOUND OUTPUT 5128004
J351	060C121008	JACK,RCA 3.5 TC38-001		OPEN
SW106	0504201T30	SKHVLH006B CLEAR		OPEN
B401	0246451652	CORE,BEADS BF25-4.5*5*1.6		OPEN
CD351	068D82019A	CORD CONNECTOR 8D82019A	068312250A	CORD,CONNECTOR 8312250A
CP351	069D320018	CONNECTOR PCB SIDE IS-80P-02-V1	069X120249	CONNECTOR PCB SIDE B2B-EH-A
SP351	070R143005	SPEAKER CP100006-01	070Q131003	SPEAKER R77A80A32X130
☆PCB001	A39709A01A	MAIN PCB ASS'Y	A39709A01BZ1	MAIN PCB ASS'Y
★PCB003	A39709A11A	CRT PCB ASS'Y	A39709A11B	CRT PCB ASS'Y
PCB004	A39709A27A	EARPHONE PCB ASS'Y		DEL

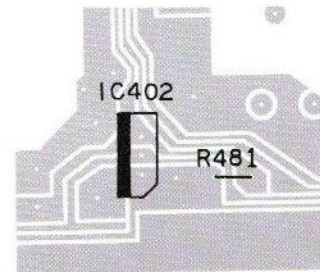
☆: MAIN PCB's are not interchangeable.  
★: CRT PCB's are interchangeable.



# **PRINTED CIRCUIT BOARD** **MAIN** (SUFFIX B)

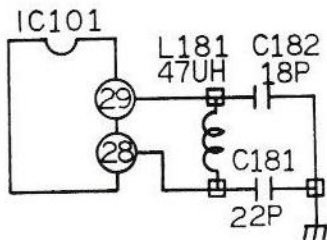


ADD C181  
C182  
L181

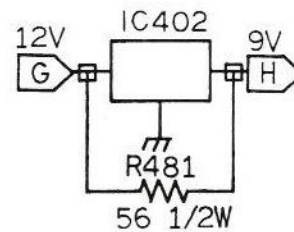


ADD R481

## **IF/MICON SCHEMATIC DIAGRAM** (SUFFIX B)



ADD C181  
C182  
L181



ADD R481

## **DIFFERENCES**

Electrical improvement

Ref.No	SUFFIX A		SUFFIX B	
	Part No	Description	Part No	Description
R351	RO01T4274J	RC 270K OHM 1/4W	RO01T4224J	RC 220K OHM 1/4W

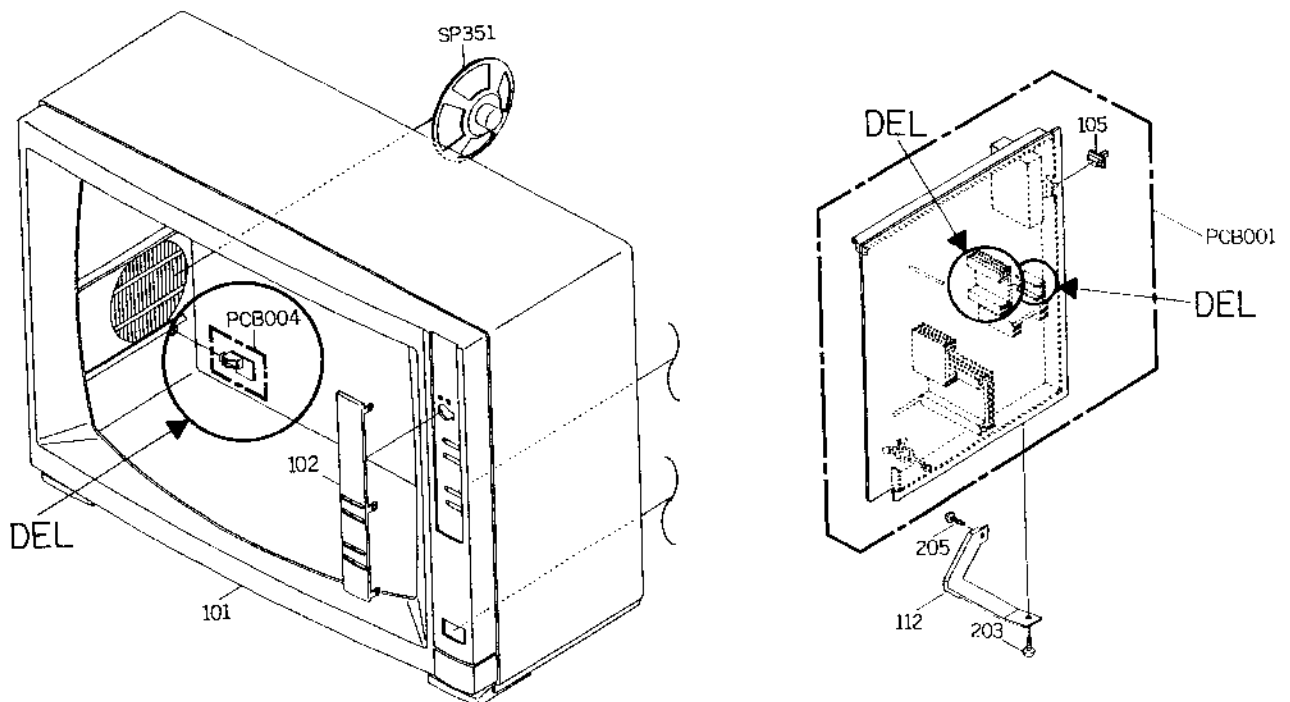
## MECHANICAL REPLACEMENT PARTS LIST

REF. NO	DESCRIPTION	SUFFIX A	SUFFIX B
		PART NO	
101	CABINET, FRONT ASS'Y	A39709A720	A39713A720
	CABINET, FRONT	701APJ0028	701APJ0030
	FILM, INFORMATION	7230003876	7230003875
106	CABINET, BACK	702APA0031	702APA0043
	SHEET, RATING	7222560503	7222560560
	SHEET, UPC-A		7230004393
---	SAFETY INSTRUCTIONS	JTVS00016	DEL

R481

### MECHANICAL EXPLODED VIEW

(SUFFIX B)



D R481

## INTERCHANGEABLE PARTS LIST

NOTE: THE FOLLOWING PART(S) MAY BE SUBSTITUTED  
FOR PARTS INDICATED IN THE ELECTRICAL REPLACEMENT  
PARTS LIST (WITH THE SAME REF. NO.). THESE PARTS SHARE  
THE SAME ELECTRICAL CHARACTERISTICS AND OTHER  
ELEMENTS FOR COMMON USAGE.  
EITHER PART NUMBER MAY BE USED IN THIS UNIT.

REF. NO	DESCRIPTION (PART NO)	DESCRIPTION (PART NO)	DESCRIPTION (PART NO)
△C443	560 PF 2KV (C0D0BN7S2K)	560 PF 2KV (C050BN7S2K)	560 UF 200V (E03MFC561M)
△C444	330 PF 2KV (C0D0BN7L2K)	330 PF 2KV (C050BN7L2K)	
△C506	560 UF 200V (E01LFC561M)	560 UF 200V (E02GOC561M)	
D169	10E10-TA2B5 (D28T10E100)	RM11C (D2BTRM11C0)	
△D501	10E10-TA2B5 (D28T10E100)	RM11C (D2BTRM11C0)	
△D502	10E10-TA2B5 (D28T10E100)	RM11C (D2BTRM11C0)	
△D503	10E10-TA2B5 (D28T10E100)	RM11C (D2BTRM11C0)	
△D504	10E10-TA2B5 (D28T10E100)	RM11C (D2BTRM11C0)	
△IC102	UPC78L06J-T1 (I02J98L060)	L78N06-SE (I03B98N060)	
△Q351	2SC4159(D,E) (TC30041590)	2SC3902(S,T) (TC30039020)	
△Q352	2SC4159(D,E) (TC30041590)	2SC3902(S,T) (TC30039020)	
VR501	22KB CONSTANT VOL. (V1263H4BT7)	22KB CONSTANT VOL. (V1163H4BT9)	
△AIC101	APSB06AMU350H-WD (0633300008)	AUSB10K350H (063J300008)	
△TH501	PTH451A103BG8ROM (D8ROBG8ROM)	ERP-F5BOM080H (D8100M8ROO)	